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* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 AUG 10 Time limit for inactive STN sessions doubles to 40
minutes
NEWS 3 AUG 18 COMPENDEX indexing changed for the Corporate Source
(CS) field
NEWS 4 AUG 24 ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS 5 AUG 24 CA/Caplus enhanced with legal status information for
U.S. patents
NEWS 6 SEP 09 50 Millionth Unique Chemical Substance Recorded in
CAS REGISTRY
NEWS 7 SEP 11 WPIDS, WPINDEX, and WPIX now include Japanese FTERM
thesaurus
NEWS 8 OCT 21 Derwent World Patents Index Coverage of Indian and
Taiwanese Content Expanded
NEWS 9 OCT 21 Derwent World Patents Index enhanced with human
translated claims for Chinese Applications and
Utility Models
NEWS 10 NOV 23 Addition of SCAN format to selected STN databases
NEWS 11 NOV 23 Annual Reload of IFI Databases
NEWS 12 DEC 01 FRFULL Content and Search Enhancements
NEWS 13 DEC 01 DGENE, USGENE, and PCTGEN: new percent identity
feature for sorting BLAST answer sets
NEWS 14 DEC 02 Derwent World Patent Index: Japanese FI-TERM
thesaurus added
NEWS 15 DEC 02 PCTGEN enhanced with patent family and legal status
display data from INPADOCDB
NEWS 16 DEC 02 USGENE: Enhanced coverage of bibliographic and
sequence information
NEWS 17 DEC 21 New Indicator Identifies Multiple Basic Patent
Records Containing Equivalent Chemical Indexing
in CA/Caplus
NEWS 18 JAN 12 Match STN Content and Features to Your Information
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NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:45:08 ON 20 JAN 2010

| | | |
|----------------------|------------|---------|
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| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.22 | 0.22 |

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STRUCTURE FILE UPDATES: 19 JAN 2010 HIGHEST RN 1202629-39-7
DICTIONARY FILE UPDATES: 19 JAN 2010 HIGHEST RN 1202629-39-7

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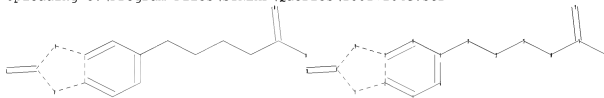
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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

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=>
Uploading C:\Program Files\STNEXP\Queries\10517264c.str



chain nodes :
10 11 12 13 14 15 16 17
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
5-11 8-10 11-12 12-13 13-14 14-15 15-16 15-17
ring bonds :

```

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9
exact/norm bonds :
2-3 2-7 3-9 7-8 8-9 8-10 15-16 15-17
exact bonds :
5-11 11-12 12-13 13-14 14-15
normalized bonds :
1-2 1-6 3-4 4-5 5-6

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Match level :

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1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS

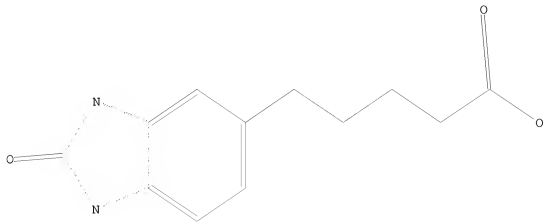
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L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 13:45:36 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 161 TO ITERATE

100.0% PROCESSED 161 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 2459 TO 3981

PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s l1 ful

FULL SEARCH INITIATED 13:45:39 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2934 TO ITERATE

100.0% PROCESSED 2934 ITERATIONS

15 ANSWERS

SEARCH TIME: 00.00.01

L3 15 SEA SSS FUL L1

=> fil caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 191.54 | 191.76 |

FILE 'CAPLUS' ENTERED AT 13:45:41 ON 20 JAN 2010
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FILE COVERS 1907 - 20 Jan 2010 VOL 152 ISS 4
FILE LAST UPDATED: 19 Jan 2010 (20100119/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l4

L4 NOT FOUND

The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s l3

L4 6 L3

=> d ibib abs hitstr tot

14 ANNEX 3 OF 6 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)
 ACCESSION NUMBER: 1972;61882 CAPLUS
 DOCUMENT NUMBER: 77401892
 ORIGINAL REFERENCE NO.: 77102394;10242a
 TITLE: Acylation of benzimidazole and its derivatives by acid anhydrides and chlorides
 AUTHOR(S): Hayakawaka, M. N.; Gordenev, A. V.; Kadyrov, Ch. Zh.
 CORPORATE SOURCE: Inst. Khim. Kast. Verkhov., Tashkent, USSR
 SOURCE: Khimika Detonatsionnaya Soedineni (1972), (3), 386-9
 COUNTRY: USSR;QJ 250M: 0132-6244

DOCUMENT TYPE:

Journal

Language:

GI: For diagram(s), see printed CA Index.

AB: Acylation of benzimidazole (I, R = H) under Friedel-Crafts conditions with anhydrides gave II (R = H) whereas acetylated reaction of anhydrides with benzimidazole gave III (R = H, Me, Et, Pr, Bu, Ph, CH₃CO).

CH: CH₃CO.

CI: CH₃CO (R = H, Me, Et, Pr, Bu, Ph, CH₃CO). Thus 0.5 mole I (R = H) was treated with 0.5 mole acetic anhydride in AlCl₃-CH₂Cl₂ to give 50% II (R = H) + 5% III (R = H), while reaction of I (R = H) with Ac₂O in CH₂Cl₂ gave 92% II (R = H) + 8% III (R = H).

IT: 36896-15-2P 36896-16-2P 36896-17-4P

36896-41-0P 36896-42-1P 36896-43-2P

36896-44-3P (Synthetic preparation) 36896-45-2P (preparation of)

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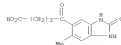
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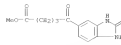
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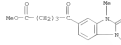
14 ANNEX 2 OF 6 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



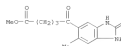
36896-41-0 CAPLUS
 18-benzimidazole-5-pentanoic acid, 2,3-dihydro-6,8-dioxo, methyl ester (CA INDEX NAME)



36896-42-1 CAPLUS
 18-benzimidazole-5-pentanoic acid, 2,3-dihydro-6,8-dioxo, methyl ester (CA INDEX NAME)



36896-43-2 CAPLUS
 18-benzimidazole-5-pentanoic acid, 2,3-dihydro-6-methyl-8,2-dioxo, methyl ester (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)

14 ANNEX 4 OF 6 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)
 ACCESSION NUMBER: 1967;477596 CAPLUS
 DOCUMENT NUMBER: 67177596
 ORIGINAL REFERENCE NO.: 6714632a;14634a
 TITLE: Infrared spectra of some benzimidazole derivatives
 AUTHOR(S): Tashkay, Ya. V.
 SOURCE: Zhurnal Prikladnoi Spektroskopii (1967), 6(4), 505-10
 COUNTRY: USSR;QJ 250M: 0214-7506

DOCUMENT TYPE:

Journal

Language:

AB: IR spectra of benzimidazole (I), 1,3-dimethylbenzimidazole (II), phenylbutyric acid (III), benzimidazolebutyric acid (IV), 1,3-dimethylbenzimidazolebutyric acid (V), γ-benzimidazolebutyric acid (VI), and of 8-benzimidazolebutyric acid (VII) were measured in pyridine and in KBr pellets. The character of the products obtained by the condensation of I or II with γ-butyrolactone and with 8-valerolactone in the presence of anhydrous AlCl₃ (the position of alkyl substitution in the benzene ring; 8-benz association) was thus investigated. Bands at 898-927 and at 815-870 cm⁻¹ in IV, V, VI, and VII correspond to the 1,2,4-substituted benzene ring and, as they appear in all condensation products, the [CH₂COO] radical must be bound in the position 5 or 6 in the 7 ring system. Maximum absorption frequencies and integral intensities of the stretching vibration C=O bands were determined. The formation of 8 bonds between 8H and C=O bands affects both the frequency and the intensity of the bands. Two maxima corresponding to the C=O group in COOH and in imide bands (1665-1685, and 1702-1715 cm⁻¹, resp.) appear in the spectra of the condensation products. The integral intensities of the 2 CO bands in the condensation products are higher than the sum of CO band intensities in I or II and the corresponding lactone. The increase is explained by the formation of 8 bonds between the OH or the COOH group and between the C=O group in the 5-membered ring.

IT: 17767-89-4 17767-91-8

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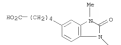
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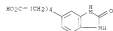
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17767-89-4 CAPLUS

14 ANNEX 4 OF 6 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



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 (1 CITINGS)



17767-89-4 CAPLUS
 18-benzimidazole-5-pentanoic acid, 2,3-dihydro-6-methyl-8,2-dioxo, methyl ester (CA INDEX NAME)

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

37.36

229.12

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

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-5.10

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